

Instructions for Supplemental Permit Application Form
METAL CLEANING DEGREASERS
(Instructions for completing DEP-AIR-APP-207)

All applicants for a permit for a stationary source, as defined in Section 22a-174-1 of the Regulations of Connecticut State Agencies (RCSA), must complete the appropriate supplemental application forms to provide information to quantify the emissions from each source or point of emissions which makes up that stationary source.

This supplemental application form must be completed for new or modified metal cleaning sources such as cold cleaning, open top vapor and conveyorized degreasers. This equipment is defined in the following manner: (1) A cold cleaning degreaser is the batch process of cleaning and removing soils from metal surfaces by spraying, brushing, flushing, or immersion while maintaining the degreasing solvent below its boiling point; (2) An open top vapor degreaser is the batch process of cleaning and removing soils from metal surfaces by condensing hot degreasing solvent vapor on the colder metal surfaces; (3) A conveyorized degreaser is the continuous process of cleaning and removing soils from metal surfaces by operating with either cold or vaporized degreasing solvents.

Please complete a separate form for each degreaser unit. (You may reproduce this form as necessary.) Complete each item as appropriate. If a specific item does not apply to your situation mark it N/A (not applicable). If additional space is needed to answer a question stated in the application, attach separate sheet(s) as necessary, clearly identifying the applicant name, form name and item number, and unit number.

Attach a process flow diagram indicating all units, air pollution control equipment and stacks, as applicable. See a sample process flow diagram in the main instructions (DEP-AIR-INST-200) for guidance. Also, for each solvent in a tank, you must attach a Material Safety Data Sheet (MSDS). (These are available from the product's supplier or are shipped with the product when it is purchased.)

You must also complete the *Air Pollution Control Equipment* form (DEP-AIR-APP-210) to provide details of the air pollution control equipment used, the *Stack Parameters* form (DEP-AIR-APP-211) to provide parameters of the stack(s) associated with each unit, and the *Unit Emissions* form (DEP-AIR-APP-212) to provide emission rates of each unit.

Note: The data provided in these forms (such as maximum anticipated solvent usage, maximum operating hours, etc.) will be used to define the operating limits in your permit.

Unit Number: Identify the reference or unit number assigned to the degreaser. Use the same numbering system that was used in completing Part I: Application and Source Type of the form *Permit Application for New Source Review Stationary Sources of Air Pollution* (DEP-AIR-APP-200). Please use a consistent reference number for each degreaser throughout the application package. Please complete a separate form for each degreaser unit.

Indicate (AYes@ or ANo@) whether the unit is subject to Title 40 of the Code of Federal Regulations (CFR) Part 60, New Source Performance Standards (NSPS) or Title 40 CFR Part 63, Maximum Achievable Control Technology (MACT). If the answer is yes to either Part 60 or Part 63, please specify the appropriate subparts.

Section I: General

1. *Manufacturer, Model Number and Serial Number* List the manufacturer, model number and serial number of the equipment. This information is specified by the manufacturer and can often be found on the equipment nameplate. If unknown, this information can be obtained from the manufacturer.
2. *Construction Date* - List the unit's actual or anticipated construction date. Please refer to the definition of **Actual construction** in RCMA Section 22a-174-1 in order to properly complete this item.
3. *Inside Dimensions of Tank* - Indicate the inside dimensions of the tank in feet, i.e., the width, length, and depth. Also indicate the freeboard height and ratio.
 - The freeboard height for a cold cleaning degreaser is defined as the distance from the liquid solvent in the degreasing tank to the lip of the tank.
 - The freeboard height for an open top vapor degreaser is defined as the distance from the solvent vapor level in the tank during idling to the lip of the tank.
 - The freeboard height for a vapor conveyorized degreaser is defined as the distance from the vapor level to the bottom of the entrance or exit opening, whichever is lower.
 - The freeboard height for a cold conveyorized degreaser is defined as the distance from the liquid solvent level to the bottom of the entrance or exit opening, whichever is lower.
 - The freeboard ratio is defined as the freeboard height divided by the smaller interior dimension (length, width, or diameter) of the degreaser.
4. *Tank Volume* - Indicate the tank's capacity in gallons. This information is specified by the manufacturer and can often be found on the equipment nameplate. If unknown, this information can be obtained from the manufacturer.
5. *Safety Switches* - Indicate the types of safety switches that the degreaser is equipped with. If other, specify the type.
6. *Maximum Operation* - Estimate your maximum operating schedule in hours per day and hours per year.
- 7a,b. *Solvent Sprayed?* - Indicate ("Yes" or "No") whether the solvent is sprayed. If sprayed, indicate the spray pressure in psi.
8. *Solvent Type* - Indicate the type of solvent (cleaning agent) that is to be used in the degreasing tank by brand name or chemical name, and manufacturer (e.g., Perchloroethylene, etc.). *Attach a Material Safety Data Sheet for each solvent in the tank.* These forms are available from the solvent's supplier or are shipped with the solvent when it is purchased. If additional space is needed to answer this item, attach separate sheet(s) as necessary, clearly identifying the applicant name, form name and item number, and unit number.
9. *Temperature of Solvent* - Indicate the temperature of the solvent bath in °F or °C.
10. *Vapor Pressure* - List the solvent's vapor pressure in millimeters of mercury at 100 °F. This value can be obtained from the solvent supplier or from standard reference texts.
- 11a,b. *Solvent Use* - Estimate, in gallons per hour, the average and maximum anticipated amount of solvent used, manifested and/ or recycled and the amount emitted per calendar quarter. Also estimate the

maximum anticipated amount of solvent used, manifested and/or recycled and the amount emitted per month and per year. The "amount used" refers to the amount which is periodically added to compensate for amounts evaporated. "Manifested" solvent refers to the amount which is no longer usable and is documented and disposed of in accordance with any applicable waste regulations. Recycled solvent refers to the amount which is cleaned, i.e., distilled, and reused. The "amount emitted" refers to the "amount used" minus the "amount manifested and/or recycled".

Section II: Cold Cleaning Degreasers Only

- 1a,b,c. *Tank Cover? Drainage Board? Drainage Return?* Indicate ("Yes" or "No") whether the degreaser is equipped with a tank cover, drainage facility, and drainage return. This information can be obtained from the manufacturer.
2. *Degreaser Type* - Indicate with a check mark, the type of degreaser, i.e., dip or spray tank.

Section III: Open Top Vapor Degreasers Only

1. *Tank Cover* - Indicate the type of tank cover to be used.

Section IV: Conveyorized Degreasers Only

1. *Degreaser Type* - Indicate the type of tank.
2. *Conveyor Speed* - Indicate the degreaser's actual conveyor speed in feet per minute.